Peng-Ting (Dean) Kuo

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Education

University of Texas at Austin   *Austin, TX*
Doctor of Philosophy in Government   *Aug 2025 - May 2030*
- First-year PhD student

National Taiwan University (NTU)   *Taipei, Taiwan*
Master of Arts in Political Science (Majored in International Relations) *Sep 2021 - Nov 2024*
- Overall GPA: **4.06/4.3**
- Thesis: The Impact of Electoral Reform on Legislators' Campaign Strategies: An Application of Large Language Models

National Taiwan University (NTU)   *Taipei, Taiwan*
Bachelor of Arts in Political Science and Minor in Economics   *Sep 2017 - June 2021*
- Last two years GPA: **4.11/4.3**

Peer-reviewed Publications

LLMs are Biased Evaluators But Not Biased for Fact-Centric Retrieval Augmented Generation. *The 63rd Annual Meeting of the Association for Computational Linguistics (ACL Findings). Vienna, Austria, Jul 27 - Aug 1, 2025. (with Yen-Shan Chen, Jing Jin, Chao-Wei Huang, Yun-Nung Chen)*

Working Papers

Democracy or Prosperity? A Cross-National Analysis of East Asian Countries. *R&R.* (*with Ronan Tse-min Fu, I-Lien Lee, Chia-Hsiang Han, Yu-Ning Chiu*)
> Presented at: 2023 Asian Barometer Survey Conference

Explaining China's Security Policy under Xi Jinping: A Neoclassical Realist Approach. *Under Review.* (*with Ronan Tse-Min Fu, Yu-Ning Chiu*)
> Presented at: 2024 Prospect Foundation Conference

Decoding Campaigning Strategies: A Machine Learning Approach to Understanding the Impact of Election Systems on Legislative Candidates. (*with Ronan Tse-Min Fu, Nich Lin*)
> Presented at: 2025 IPSA; 2024 MPSA, JAES; 2023 TPSA

More Trade, More Dispute? Measuring Alliance Effect on WTO Conflict. (*with Wayne Hsuan-Wei Lee*)
> Presented at: 2026 MPSA

The Continuous Global Leadership Project: A Verifiable AI Search Agent Methodology. (*with Connor Jerzak*)
> Presented at: 2026 Texas Methods

Professional Experience

Department of Government, University of Texas at Austin   *Austin, TX*
Research Assistant   *Aug 2025 - Present*
- Supervised by Prof. John Gerring
- Engineered end-to-end data pipeline from scratch for extracting and structuring institutional data from historical texts using multiple state-of-the-art LLMs (GPT, Claude, LLaMA, Gemini)
- Optimized model performance through systematic experimentation with prompt engineering strategies including few-shot learning and chain-of-thought reasoning, evaluated using F1 scores in pilot studies

Institute of Sociology, Academia Sinica   *Taipei, Taiwan*
Research Assistant   *Apr 2024 - Present*
- Supervised by Prof. Wayne Hsuan-Wei Lee
- Analyzed 600+ WTO Dispute Settlement Body cases and 8000+ documents using social network analysis uncovering key patterns and relationships between countries
- Designed data pipeline from scratch, including web scrapping, text pre-processing, Retrieval Augmentation Generation (RAG) system, and data analytics, improving data accessibility for scalable research

Department of Computer Science & Information Engineering, NTU   *Taipei, Taiwan*
Research Assistant   *Aug 2024 - Dec 2024*
- Supervised by Prof. Vivian Yun-Nung Chen
- Optimized research design and evaluated bias in LLMs (GPT, LLaMA) using the Retrieval-Augmented Generation (RAG) framework, incorporating social science experimental methodology
- Curated and analyzed 1000+ paired human-AI annotated datasets, developed visualization tools for bias assessment, contributing to a paper presented by the 2025 ACL Findings

Institute of Political Science, Academia Sinica
Research Assistant

Taipei, Taiwan
Mar 2022 - Aug 2025

- Supervised by Prof. Ronan Tse-Min Fu
- Engineered datasets and conducted statistical analysis on cross-national data from twelve East Asian countries using Python and R, contributed to a publication at the Asian Barometer Survey Conference 2023
- Developed and curated a 2-million-entry news database from China's People's Daily. Trained classification models using PyTorch and RoBERTa framework, achieving 96% accuracy in identifying international news
- Developed and maintained an events database on UK-Germany relations, consolidating a comprehensive resource and literature reviews for the book project and regularly reporting progress to the team

First Bank
Intern

Taipei, Taiwan
Jul 2020 - Aug 2020

- Conducted qualitative data collection and developed strategic recommendations to enhance digital bank user experience, earning recognition from managers
- Initiated and organized an experience-sharing session on project management for 50+ interns, strengthening intern-company relationships

Invited Talk

Exploring an Interdisciplinary Academic Career in Data Mining and NLP *2024*

Department of Political Science, Soochow University

- Guest lectured on applications of NLP in political science research during graduate statistics courses
- Led hands-on Python programming workshops demonstrating NLP implementation

Honors and Awards

Graduate Fellowship in Law and Democracy, *UT Austin* ($1000)	*2026*
Phi Tau Phi Scholastic Honor Society, *National Taiwan University*	*2025*
TOEFL ITP Higher Education Research Scholarship, *TOEFL Chun-Hsin Limited*	*2024*
Travel Grant for International Conference Participation, *National Science and Technology Council; NTU*	*2024*
Diplomatic Scholarship, *Ministry of Foreign Affairs, Republic of China (Taiwan)*	*2022*
Yu Ren-Huan Scholarship, *Department of Political Science, NTU*	*2019*
Dean's List Award (Rank 2/46), *NTU*	*2019*

Teaching Experience

University of Texas at Austin *Austin, TX*

Statistical Analysis in Political Science (GOV350), TA	*Jan 2026 - May 2026*
World War I in Real Time (GOV355), TA	*Aug 2025 - Dec 2025*

Academia Sinica *Taipei, Taiwan*

Institution of Social Science Methodology (ISSM), TA	*Jul 2025 - Jul 2025*

National Taiwan University (NTU) *Taipei, Taiwan*

Appied Deep Learning (CSIE5431), TA	*Sep 2024 - Nov 2024*
Computational Social Science (PS5697), TA	*Feb 2024 - May 2024*
Basic Mathematics for Social Science (PS5710), TA	*Sep 2023 - Dec 2023*
Social Network and Group Behavior (PS5705), TA	*Feb 2023 - Jun 2023*
Seminar on Game Theory (PS5019), TA	*Sep 2022 - Dec 2022*
International Law (PS3316, PS3317), TA	*Sep 2021 - May 2024*

Skills

Language	Mandarin, English, Japanese
Programming	Python, PyTorch, R, Netlogo
Software Skills	LaTeX, Git, Linux